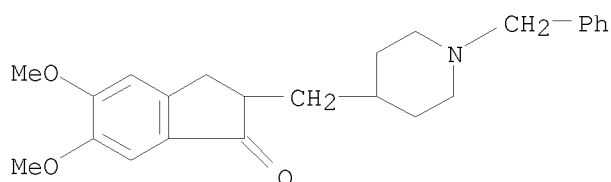


ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
 RN 120011-70-3 REGISTRY
 ED Entered STN: 07 Apr 1989
 CN 1H-Inden-1-one, 2,3-dihydro-5,6-dimethoxy-2-[[1-(phenylmethyl)-4-piperidinyl]methyl]-, hydrochloride (1:1) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1H-Inden-1-one, 2,3-dihydro-5,6-dimethoxy-2-[[1-(phenylmethyl)-4-piperidinyl]methyl]-, hydrochloride (9CI)
 OTHER NAMES:
 CN Aricept
 CN Aricept D
 CN BNAG
 CN Donepezil hydrochloride
 CN E 2020
 CN E 2020 (pharmaceutical)
 DR 142057-77-0
 MF C24 H29 N O3 . Cl H
 CI COM
 SR CA
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CIN, CSCHEM, EMBASE, HSDB*, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*, PATDPASPC, PIRA, PROMT, PROUSDDR, PS, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 CRN (120014-06-4)



● HCl

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

557 REFERENCES IN FILE CA (1907 TO DATE)
 19 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 563 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d his 15-17

(FILE 'CAPLUS' ENTERED AT 09:32:05 ON 07 JUN 2010)
 L5 563 S L2
 L6 56 S L2 AND CRYSTAL?
 L7 2 S L6 AND (METHYLENE(5A)CHLORIDE)

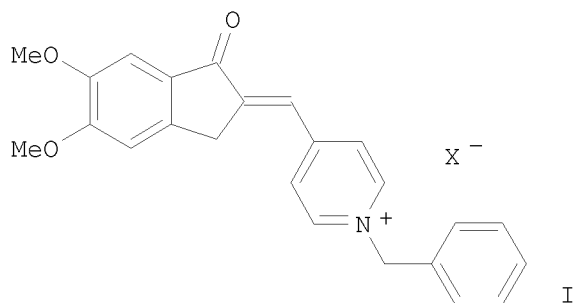
FILE 'REGISTRY' ENTERED AT 09:34:50 ON 07 JUN 2010

FILE 'CAPLUS' ENTERED AT 09:34:50 ON 07 JUN 2010

=> d bib abs hit 1-2

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN
AN 2009:1204112 CAPLUS
DN 151:403120
TI Preparation of donepezil hydrochloride
IN Rao, Dharmaraj Ramachandra; Kankan, Rajendra Narayanrao
PA Cipla Limited, UK; Patht, Snnivas Laxminarayan; Curtis, Philip Anthony
SO PCT Int. Appl., 29pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2009118516	A1	20091001	WO 2009-GB776	20090324
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	IN 2008-MU636	A	20080325		
OS	CASREACT 151:403120				
GI					



AB The present invention provides a process for preparing donepezil or a salt, the process comprising reducing a 1-benzyl-4-[(5,6-dimethoxy-1-indanon-2-yl)methylen]pyridonium halide (I, X = Br or Cl), in the presence of an ionic compound, a solvent, a catalyst and a source of hydrogen, to form donepezil and optionally converting the donepezil to the salt.

IT Crystallization
Drug delivery systems
Hydrogenation
Hydrogenation catalysts
Reduction
(preparation of donepezil hydrochloride)

IT 60-29-7, Diethyl ether, uses 64-17-5, Ethanol, uses 64-19-7, Acetic

acid, uses 67-56-1, Methanol, uses 67-63-0, Isopropanol, uses 75-09-2, Methylene chloride, uses 77-92-9, Citric acid, uses 107-06-2, Ethylene chloride, uses 108-20-3, Diisopropyl ether 109-99-9, Thf, uses 127-08-2, Potassium acetate 127-09-3, Sodium acetate 141-78-6, Ethyl acetate, uses 585-29-5, Triethylammonium formate 631-61-8, Ammonium acetate 1336-21-6, Ammonium hydroxide 1634-04-4, tert-Butyl methyl ether 7447-40-7, Potassium chloride, uses 7601-89-0, Sodium perchlorate 7632-50-0, Ammonium citrate 7647-14-5, Sodium chloride, uses 7778-49-6, Potassium citrate 10103-46-5, Calcium phosphate 12125-02-9, Ammonium chloride, uses 14265-44-2, Phosphate, uses 14307-43-8, Ammonium tartrate 15066-28-1, Pyridinium formate 16068-46-5, Potassium phosphate

RL: NUU (Other use, unclassified); USES (Uses)

(preparation of donepezil hydrochloride)

IT 120011-70-3P, Donepezil hydrochloride

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of donepezil hydrochloride)

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2010 ACS on STN

AN 2005:1292008 CAPLUS

DN 144:27610

TI Preparation of polymorphs of donepezil hydrochloride

IN Aher, Umesh P.; Tarur, Venkatasubramanian R.; Sathe, Dhananjay Govind; Naidu, Avinash Venkataraman; Sawant, Kamlesh Digambar

PA USV Limited, India

SO U.S. Pat. Appl. Publ., 7 pp., Cont.-in-part of U.S. Ser. No. 72,169.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050272775	A1	20051208	US 2005-145202	20050603
	US 7186842	B2	20070306		
	US 6649765	B1	20031118	US 2003-365717	20030212
	US 20040158070	A1	20040812	US 2003-714724	20031117
	US 6953856	B2	20051011		
	US 20050107613	A1	20050519	US 2004-879816	20040629
	US 7439365	B2	20081021		
	WO 2006011154	A1	20060202	WO 2004-IN227	20040728
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 1771416	A1	20070411	EP 2004-806738	20040728
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, HR, LT, LV				
	US 20050288330	A1	20051229	US 2005-72169	20050304
	IN 2006MN00197	A	20080905	IN 2006-MN197	20060216
	US 20080076928	A1	20080327	US 2006-412294	20060427
	US 20070123565	A1	20070531	US 2006-557764	20061108
PRAI	US 2003-365717	A2	20030212		
	US 2003-714724	A2	20031117		

US 2004-879816	A2	20040629
WO 2004-IN227	A	20040728
US 2005-72169	A2	20050304
US 2005-145202	A2	20050603
US 2005-752640P	P	20051221

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The present invention discloses a novel, stable polymorph of 1-benzyl-4[(5,6-dimethoxy-1-indanone)-2-yl]methylnpiperidine-HCl (donepezil-HCl) (I). Further the present invention discloses a process for producing amorphous I and its polymorphic Form VI. Thus, I was prepared by the reaction of the free base with oxalic acid followed by treatment with HCl.

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Crystal structure
(of donepezil polymorph)

IT Alzheimer's disease
Polymorphism (crystal)
Solvents

(preparation of polymorphs of donepezil hydrochloride)

IT 67-66-3, Chloroform, uses 75-09-2, Methylene chloride
, uses 108-88-3, Toluene, uses 141-78-6, Ethyl acetate, uses
RL: NUU (Other use, unclassified); USES (Uses)

(preparation of polymorphs of donepezil hydrochloride)

IT 120011-70-3, Donepezil hydrochloride

RL: PRP (Properties)

(preparation of polymorphs of donepezil hydrochloride)